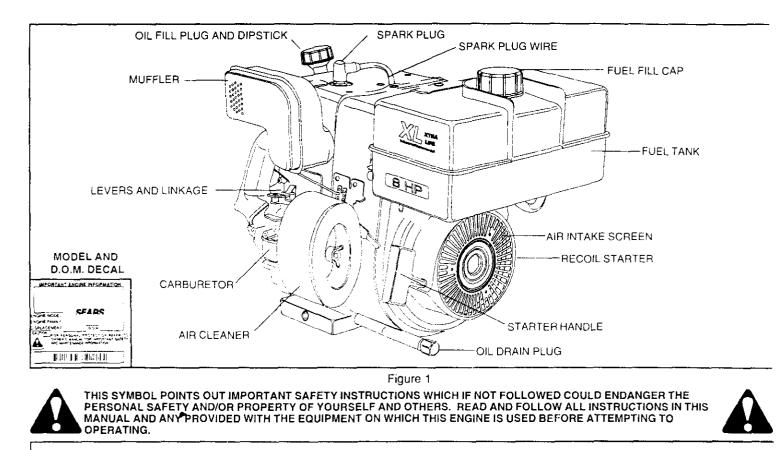


California Proposition 65 WARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Sold by SEARS, ROEBUCK AND CO., CHICAGO, IL 60684 U.S.A. and SEARS CANADA, INC., TORONTO, ONTARIO, CANADA



THESE SYMBOLS MAY APPEAR ON THE ENGINE:



slow

NOTE: Engines which are certified to comply with California and U.S. EPA emission regulations for SORE (Small Off Road Equipment), are certified to operate on regular unleaded gasoline, and include the following emission control systems: Engine Modification (EM), and Three-way Catalyst (TWC) (*if so equipped*).

OIL & FUEL RECOMMENDATIONS

TO OPERATE ENGINE, YOU WILL NEED THE FOLLOWING:

1 Be sure original container is marked:

A.P.I. service "SF"-"SJ".

FOR SUMMER (ABOVE 32°F; 0°C) USE SAE 30 OIL.

Using multigrade oil will increase oil consumption. FOR WINTER (BELOW 32°F; 0°C) USE SAE 5W30 OIL.

(SAE 10W is an acceptable substitute.)

DO NOT USE SAE 10W40 OIL.

OIL SUMP CAPACITY: 24 ounces (1-1/2 pints)

71 liter

2 A FRESH, CLEAN, UNLEADED REGULAR, UN-LEADED PREMIUM, OR REFORMULATED AUTO-MOTIVE GASOLINE ONLY. DO NOT USE LEADED GASOLINE.

NOTE: DO NOT USE GASOLINE CONTAINING METHANOL (WOOD ALCOHOL). Gasoline containing up to 10% ethanol or grain alcohol ("Gasohol"), or up to 15% MTBE (Methyl Tertiary Butyl Ether), may be used but requires special care when engine is unused for extended periods.

See "STORAGE" instruction on Page 4.

NOTE: Use clean oil and fuel and store in approved, clean covered containers. Use clean fill funnels.

Never use "stale" gasoline left over from last season or stored for long periods,

IMPORTANT

ŧ.

OFF

¥

CHOKE

FULL

KEEP THIS MANUAL HANDY AT ALL TIMES FOR FUTURE REFERENCE. READIT CAREFULLY AND FAMILIARIZE YOUR-SELF WITH THE OPERATING, MAINTENANCE AND SAFETY INSTRUCTIONS. THIS MANUAL ALSO CONTAINS A COM-PLETE PARTS LISTING.

BEFORE STARTING

STOP

- U READ ALL INSTRUCTIONS PROVIDED WITH THE EQUIP-MENT ON WHICH THIS ENGINE IS USED.
- **② CHECK OIL LEVEL**:

CAUTION: NEVER RUN ENGINE UNLESS OIL LEVEL IS BETWEEN "FULL" AND "ADD" MARKS ON DIPSTICK.

CHECK OIL LEVEL OFTEN DURING ENGINE BREAK-IN.

NEVER RUN ENGINE UNLESS OIL FILL PLUG IS TIGHT-ENED SECURELY INTO OIL FILL HOLE.

- A. POSITION EQUIPMENT SO ENGINE IS LEVEL.
- B. Clean area around oil fill plug (see Figure 1).
- C. Remove oil fill plug and dipstick.
- D. Wipe dipstick clean, insert it into oil fill hole and tighten securely.
- E. Remove oil fill plug and check oil level. If level is not up to "FULL" mark on dipstick, add recommended oil, until it is. POUR SLOWLY.

Wipe dipstick clean each time oil level is checked. DO NOT FILL ABOVE "FULL" MARK ON DIPSTICK.

F. Replace oil fill plug and tighten securely. See "MAINTENANCE" section for any future oil level and oil change instructions (see Page 3).

BEFORE STARTING (Continued)

③ FILL FUEL TANK with gasoline as specified in the preceding "OIL & FUEL RECOMMENDATIONS" item 2.

NEVER MIX OIL WITH GASOLINE

Never use "stale" gasoline left over from last season or stored for long periods.



NEVER FILL FUEL TANK COMPLETELY. FILL TANK TO 1/2" BELOW BOTTOM OF FILLER NECK TO PROVIDE SPACE FOR FUEL EXPANSION. WIPE ANY FUEL SPILLAGE FROM ENGINE AND EQUIPMENT BEFORE STARTING ENGINE.

ANY LIQUEFIED PETROLEUM (LPG) OR NATURAL GAS FUEL SYSTEM MUST BE LEAKPROOF AND MEET ALL APPLICABLE CODES AND REGULATIONS.

(4) CHECK THE FOLLOWING:

- A. BE SURE EQUIPMENT IS IN NEUTRAL GEAR WITH CLUTCHES, BELTS, CHAINS AND SAFETY SWITCHES DISENGAGED. (FOLLOW EQUIPMENT MANUFACTUR-ER'S INSTRUCTIONS.) THIS SHOULD PLACE ANY SAFETY SWITCHES IN SAFE STARTING POSITION.
 - B. Be sure spark plug wire is attached to spark plug (see Figure 1).
 - C. Be sure stop switch (see Figure 1) next to spark plug is not contacting spark plug.
 - D. Be sure any ignition switch on engine or equipment is in ON, RUN or START position.

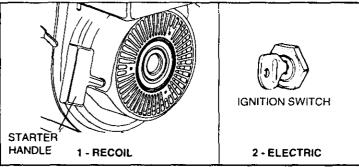


Figure 2

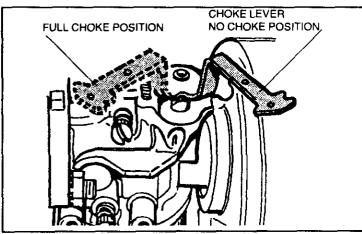
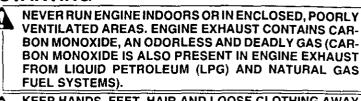


Figure 3

STARTING



KEEP HANDS, FEET, HAIR AND LOOSE CLOTHING AWAY FROM ANY MOVING PARTS ON ENGINE AND EQUIPMENT.

WARNING: TEMPERATURE OF MUFFLER AND NEARBY AREAS MAY EXCEED 150°F (65°C). AVOID THESE AREAS.

- (1) **RECOIL STARTER** (see Figures 2 and 3):
 - A. Move CHOKE LEVER to FULL CHOKE POSITION.
 - NOTE: IF RESTARTING A WARM ENGINE AFTER A SHORT SHUTDOWN, MOVE CHOKE LEVER TO "NO CHOKE POSITION."
 - B. Move EQUIPMENT CONTROL to START (see equipment manufacturer's instructions).
 - C. Grasp starter handle (see Figure 2) and pull rope out, slowly, until it pulls slightly harder. Let rope rewind slowly. Then pull rope with a rapid full arm stroke. Let rope rewind SLOWLY. Do not let starter handle snap back against starter.
 - D. Repeat instruction C until engine fires. When engine starts, move CHOKE LEVER to 1/2 CHOKE until engine runs smoothly and then to NO CHOKE POSITION.

If engine falters, move CHOKE LEVER to 1/2 CHOKE until engine runs smoothly and then to NO CHOKE POSITION.

NOTE: If engine fires, but does not continue to run, move CHOKE LEVER to NO CHOKE POSITION and repeat instruction C until engine starts.

If engine again fires, but does not continue to run, move CHOKE LEVER to FULL CHOKE POSITION and repeat instruction C and D until engine starts.

- (2) ELECTRIC STARTER (see Figures 2 and 3):
 - A. Move CHOKE LEVER to FULL CHOKE POSITION.
 - NOTE: IF RESTARTING A WARM ENGINE AFTER A SHORT SHUTDOWN, MOVE CHOKE LEVER TO "NO CHOKE POSITION."
 - B. Move EQUIPMENT CONTROL to START (see equipment manufacturer's instructions).
 - C. Push starter button or turn ignition switch key (see equipment manufacturer's instructions) to crank engine.
 - D. Crank engine until it fires. When it starts, release starter button or ignition switch key and move choke lever to 1/2 CHOKE until engine runs smoothly and then to NO CHOKE POSITION.

If engine falters, move CHOKE LEVER to 1/2 CHOKE until engine runs smoothly and then to NO CHOKE POSITION.

NOTE: If engine fires, but does not continue to run, move CHOKE LEVER to NO CHOKE POSITION and repeat instructions C and D until engine starts.

STOPPING

- \oplus Move equipment control or any ignition stop switch on engine to STOP or OFF (see equipment manufacturer's instructions).
- (2)Push stop switch (see Figure 1) located next to spark plug on engine against spark plug and hold it in this position until engine is completely stopped.
- (3) AFTER ENGINE IS STOPPED:

A. DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND KEEP IT AWAY FROM SPARK PLUG.

B. TURN IGNITION SWITCH KEY (IF SO EQUIPPED) TO "OFF" POSITION AND REMOVE KEY FROM SWITCH. THIS WILL REDUCE THE POSSIBILITY OF UNAUTHO-RIZED STARTING OF ENGINE WHILE EQUIPMENT IS NOT IN USE.

NEVER STORE ENGINE WITH FUEL IN TANK INDOORS OR IN ENCLOSED, POORLY VENTILATED AREAS WHERE FUEL FUMES MAY REACH AN OPEN FLAME, SPARK OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER OR OTHER GAS APPLI-ANCE.

MAINTENANCE

WARNING: TEMPERATURE OF MUFFLER AND NEARBY AREAS MAY EXCEED 150°F (65°C). AVOID THESE AREAS.

(1) CHECK OIL LEVEL:

Check oil level every five (5) operating hours or each time engine is used. See "2 CHECK OIL LEVEL" in "BEFORE STARTING" on Page 1.

(2) CHANGE OIL:

Change oil after first two (2) operating hours and every 25 operating hours thereafter, more often if operated in extremely dusty or dirty conditions. Change oil while engine is still warm from recent running.

- A. Position equipment so engine oil drain plug is lowest point on engine (see Figure 1).
- B. Remove oil drain plug and oil fill plug to drain oil.
- C. Replace oil drain plug and tighten securely.
- D. Fill oil sump with recommended oil. See "OIL & FUEL RECOMMENDATIONS" and "CHECK OIL LEVEL" on Page 1
- E. Replace oil fill plug and tighten securely.
- F. Wipe up any spilled oil.
- (3) AIR CLEANER (see Figure 4):

NEVER RUN ENGINE WITHOUT COMPLETE AIR CLEANER INSTALLED ON ENGINE.

- A. TO SERVICE FILTER(S) (see Figure 4):
 - FOAM FILTER: 1

Clean and re-oil every three (3) months or every 25 operating hours. Clean and re-oil daily if used in extremely dusty conditions.

- Wash in water and detergent solution and squeeze a. (don't twist) until all dirt is removed.
- Rinse thoroughly in clear water. b
- Wrap in a clean cloth and squeeze (don't twist) С until completely dry.
- Saturate with engine oil and squeeze (don't twist) d to distribute oil and remove excess oil.

PAPER FILTER: 2

DO NOT ATTEMPT TO CLEAN OR OIL FILTER.

Replace once a year or every 100 operating hours, more often if used in extremely dusty conditions. Replacement filters are available at any Sears Roebuck and Co. (or Sears Canada, Inc.) Service Center.

MAINTENANCE (Continued)

B. TO REMOVE AND INSTALL FILTER(S)

- 1. Remove wing nut and cover,
- 2. Slide foam filter off paper filter.
- Inspect filters for discoloration or dirt accumulation. 3 either is present, service per preceding "TO SERVICI FILTER(S)" instructions.
- 4 Clean inside of base and cover thoroughly.
- 5. Install new paper filter on base.
- 6. Slide foam filter over paper filter.
- Install cover and wing nut. Tighten wing nut securely 7.

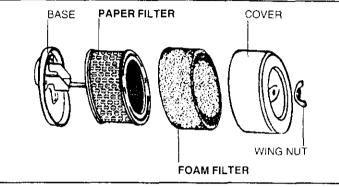


Figure 4

4 SPARK PLUG (see Figure 5):

NOTE: This spark ignition system meets all requirements of the Canadian Interference-Causing Equipment Regulations.

NOTE: This engine complies with all current Australian and New Zealand limi tations regarding electromagnetic interference.

NOTE: This engine complies with the European standard for safety of garder equipment and powered lawnmowers EN836, Revision March, 1997, and appli cable sections of the EU Machinery Safety Directives.

Check spark plug yearly or every 100 operating hours.

- Clean area around spark plug.
- B. Remove and inspect spark plug.
- C. Replace spark plug if electrodes are pitted, burned or porcelair is cracked. For replacement use Champion RJ17LM.

NOTE: A resistor spark plug must be used for replacement

- D. Check electrode gap with wire feeler gauge and set gap at .030 if necessary.
- E. Install spark plug, tighten securely.

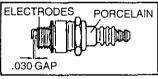
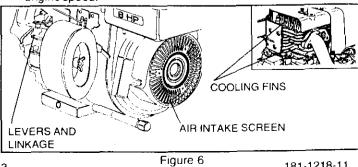


Figure 5

5 COOLING SYSTEM

IMPORTANT: Frequently remove any grass clippings, dirt and debris from cooling fins, air intake screen and levers and linkage (see Figure 6). This will help ensure adequate cooling and correc engine speed.



6 CHECK ENGINE AND EQUIPMENT OFTEN FOR LOOSE NUTS, BOLTS AND ATTACHMENTS AND KEEP THESE ITEMS TIGHTENED.

ADJUSTMENTS

DO NOT MAKE UNNECESSARY ADJUSTMENTS. FACTORY SETTINGS ARE SATISFACTORY FOR MOST APPLICATIONS AND CONDITIONS. IF ADJUSTMENTS ARE NEEDED, PRO-CEED AS FOLLOWS:

(1) CARBURETOR (see Figure 7):

If you think your carburetor needs adjusting, see your nearest SEARS, ROEBUCK AND CO. (OR SEARS CANADA, INC.) SERVICE CENTER. Engine performance should not be affected at altitudes up to 7,000 feet. For operation at higher elevations, contact your nearest SEARS, ROEBUCK AND CO. (OR SEARS CANADA, INC.) SERVICE CENTER.

2 ENGINE SPEED:

NEVER TAMPER WITH ENGINE GOVERNOR WHICH IS FAC-TORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING ENGINE ABOVE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS.

CHANGING OF ENGINE-SOVERNED SPEED WILL VOID ENGINE WARRANTY.

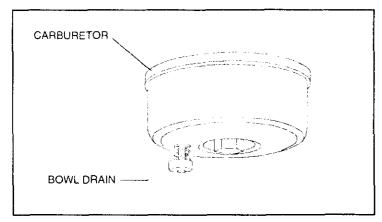


Figure 7

STORAGE



IF ENGINE IS TO BE UNUSED FOR 30 DAYS FOR MORE, PRE-PARE AS FOLLOWS:

1 DRAIN FUEL SYSTEM:

Remove all gasoline from carburetor and fuel tank to prevent gum deposits from forming on these parts and causing possible malfunction of engine.

DRAIN FUEL INTO APPROVED CONTAINER OUTDOORS, AWAY FROM OPEN FLAME. BE SURE ENGINE IS COOL. DO NOT SMOKE.

Run engine until fuel tank is empty and engine stops due to lack of fuel.

NOTE: Fuel stabilizer (such as STA-BIL) is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow it to reach carburetor.

② CHANGE OIL:

Change oil if it has not been changed in the last three (3) months. See "CHANGE OIL" instructions in "MAINTENANCE" section.

③ OIL CYLINDER BORE:

- A. Remove spark plug and pour one (1) ounce (30 ml) of clean engine oil into spark plug hole.
- B. Cover spark plug hole with a rag.
- C. Crank engine over, slowly, several times.



- AVOID SPRAY FROM SPARK PLUG HOLE WHEN CRANKING ENGINE OVER SLOWLY.
- D. Install spark plug. Do not connect spark plug wire.

(4) CLEAN ENGINE:

Remove any clippings, dirt, or chaff from exterior of engine.

GENERAL

Just as your automobile needs professional mechanical maintenance from time to time, so does your Craftsman engine. Replacement of the spark plug and air cleaner is made necessary by NORMAL use. Professional Air-Cooled Engine Service is as close as your nearest Sears Roebuck and Co. (or Sears Canada, Inc.) Service Center.

A yearly check-up or tune-up by Sears is a good idea to avoid breakdowns or delay . . . do it at the end of the season, then you're ready for the next. We even prepare it for storage for you.

TROUBLESHOOTING

THE FOLLOWING MAY HELP AVOID A DELAY IN YOUR WORK OR SAVE THE EXPENSE OF A SERVICE CALL.

CAUSE	REMEDY	
Controls not in start position.	Move ENGINE CONTROL or equipment control to "HI" or START postion. See "STARTING" instructions in this manual.	
Spark plug wire disconnected from spark plug.	Connect SPARK FLUG WIRE to SPARK PLUG.	
Spark plug fouled.	Remove SPARK PLUG and clean it. See "SPARK PLUG" instructions in "MAINTENANCE" section in this manual.	
Spark plug porcelain cracked.	Install new spark plug.	
Insufficient fuel.	Fill FUEL TANK per "BEFORE STARTING" instructions.	
Water or dirt in fuel.	Drain FUEL TANK and re-fill with clean, fresh gasoline. See "BEFORE STARTING" instructions in this manual.	
Improper carburetor adjustment	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.	
ENGINE LACKS POWER		
CAUSE	REMEDY	
Dirty air cleaner.	Replace or clean air cleaner per "AIR CLEANER" instructions in "MAINTENANCE" section in this manual.	
Improper carburetor adjustment.	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.	
Lack of lubricaiton.	Fill oil sump to proper level. See "BEFORE STARTING" instructions section in this manual.	
ENGINE MISSES UNDER LOAD		
CAUSE	REMEDY	
Spark plug fouled.	Remove SPARK PLUG and clean it. See "SPARK PLUG" instructions in "MAINTENANCE" section in this manual.	
Spark plug porcelain cracked.	Install new SPARK PLUG.	
Improper spark plug gap.	r spark plug gap. Regap SPARK PLUG electrodes. See "SPARK PLUG instructions in "MAINTENANCE" section in this manual	
Improper carburetor adjustment	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.	

SEARS, ROEBUCK AND CO. Federal and California Emission Control Systems Limited Warranty Small Off-Road Engines

CALIFORNIA & US EPA EMISSION CONTROL WARRANTY STATEMENT

The U. S. Environmental Protection Agency ("EPA"), the California Air Resources Board ("CARB") and Sears, Roebuck and Co. are pleased to explain the Federal and California Emission Control Systems Warranty on your new small off-road engine. In California, new 1995 and later small off-road engines must be designed, built and equipped to meet the State's stringent anti-smog standards. In other states, new 1997 and later model year engines must be designed, built and equipped, at the time of sale, to meet the U.S. EPA regulations for small non-road engines. Sears, Roebuck and Co. will warrant the emission control system on your small off-road and Co. will warrant the emission control system on your small off-road engine for the periods of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your small off-road engine

Your emission control system may include parts such as the carburetor, ignition system and exhaust system. Also included may be the compression release system and other emission-related assemblies.

Where a warrantable condition exists, Sears, Roebuck and Co. will repair your small off-road engine at no cost to you for diagnosis, parts and labor

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE

Emission control systems on 1995 and later model year California small off-Emission control systems on 1995 and later model year california small off-road engines are warranted for two years as hereinafter noted. In other states, 1997 and later model year engines are also warranted for two years. If, during such warranty period, any emission-related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by Sears, Roebuck and Co

OWNER'S WARRANTY RESPONSIBILITIES

As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual, but Sears, Roebuck and Co. will not deny warranty solely due to the lack of receipts or for your failure to provide written evidence of the performance of all scheduled maintenance

As the small off-road engine owner, you should, however, be aware that Sears, Roebuck and Co. may deny you warranty coverage if your small off-road engine or a part thereof has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to a Sears, Roebuck and Co. Authorized Service Outlet as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

Warranty service can be arranged by contacting either a Sears, Roebuck and Co. Authorized Service Outlet, or by contacting Sears, Roebuck and Co. at 1-800-473-7247.

IMPORTANTNOTE

This warranty statement explains your rights and obligations under the Emission Control System Warranty ("ECS Warranty") which is provided to you by Sears, Roebuck and Co. pursuant to California law. See also the Sears, Roebuck and Co. Limited Warranties for Sears, Roebuck and Co. which is enclosed therewith on a separate sheet and also is provided to you by Sears. Roebuck and Co. The ECS Warranty applies only to the emission control system of your new engine. To the extent that there is any conflict in terms between the ECS Warranty and the Sears, Roebuck and Co. Warranty, the ECS Warranty shall apply except in any circumstances in which the Sears, Roebuck and Co. Warranty may provide a longer warranty period. Both the ECS Warranty and the Sears, Roebuck and Co. Warranty describe important rights and obligations with respect to your new engine.

Warranty service can only be performed by a Sears, Roebuck and Co. Authorized Service Outlet. At the time of requesting warranty service, evidence must be presented of the date of sale to the original purchaser. The purchaser shall pay any charges for making service calls and/or for transporting the products to and from the place where the inspection and/or warranty work is performed. The purchaser shall be responsible for any damage or loss incurred in connection with the transportation of any engine construction and/or inspection and/or warranty work is performed. or any part(s) thereof submitted for inspection and/or warranty work

If you have any questions regarding your warranty rights and responsibilities, you should contact Sears, Roebuck and Co. at 1-800-473-7247.

EMISSION CONTROL SYSTEM WARRANTY

Emission Control System Warranty ("ECS Warranty") for 1995 and later model year California small off-road engines (for other states, 1997 and later model vear engines):

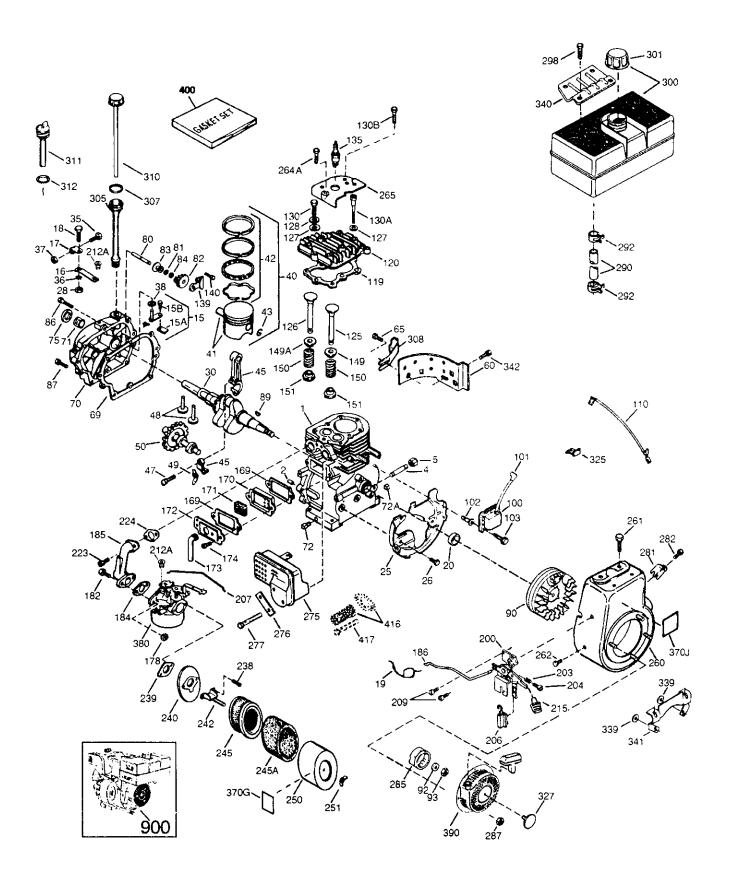
A. APPLICABILITY: This warranty shall apply to 1995 and later model year California small off-road engines (for other states, 1997 and later model year engines). The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.

B. GENERAL EMISSIONS WARRANTY COVERAGE: Sears, Roebuck and Co. warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its small off-road engines is

- Designed, built and equipped so as to conform with all applicable regulations adopted by the Air Resources Board pursuant to its authority in Chapters 1 and 2, Part 5, Division 26 of the Health and Safety Code, and
- Free from defects in materials and workmanship which, at any time during the ECS Warranty Period, will cause a warranted emissions-related part to fail to be identical in all material respects to the part as described in the engine manufacturer's application for certification
- The ECS Warranty only pertains to emissions-related parts on your engine, as follows:
 - Any warranted, emissions-related parts which are not scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by Sears. Roebuck and Co according to Subsection 4 below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.
 - Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owner's Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.
 - 3. Any warranted, emissions-related part which is scheduled for Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manuai, shall be warranted for the period of time prior to the first scheduled replace-ment point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by Sears, Roebuck and Co. according to Subsection 4 below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.
 - Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a 4 Sears, Roebuck and Co. Authorized Service Outlet.
 - The owner shall not be charged for diagnostic labor which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a Sears, Roebuck and Co. Authorized Service Outlet. 5
 - Sears, Roebuck and Co. shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the 6 ECS Warranty.
 - Throughout the ECS Warranty Period, Sears, Roebuck and Co. shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.
 - Any Sears, Roebuck and Co. authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce Sears, Roebuck and Co. ECS 8. Warranty obligations.
 - Unapproved add-on or modified parts may not be used to modify or repair a Sears, Roebuck and Co. engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. Sears, Roebuck and Co. shall not be liable hereunder for failures of any warranted parts of a Sears, Roebuck and Co. engine coursed by the use of such as upparted data or modified part. 9 caused by the use of such an unapproved add-on or modified part.

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING:

- 1. Carburetor Assembly and its Internal Components
 - a) Fuel filter
 - b) Carburetor gaskets
- c) Intake pipe Air Cleaner Assembly 2
- a) Air filter element Ignition System, including 3.
 - a) Spark plug b) Ignition module
 - c) Flywheel assembly
- Catalytic Muffler (if so equipped) a) Muffler gasket (if so equipped)
- b) Exhaust manifold (if so equipped) Crankcase Breather Assembly and its Components a) Breather connection tube



CRAFTSMAN 4-CYCLE ENGINE

MODEL: 143.009009

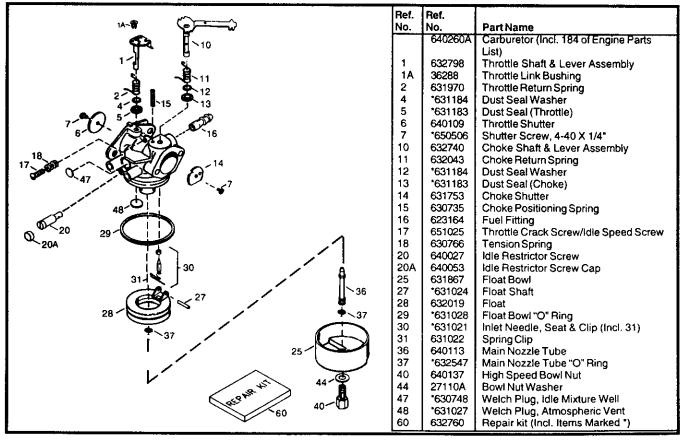
4 Oil Drain Extension (Purchase Locally) 126 3/036 Intake Valve (1/32* OS) (Incl. 151) 5 30969 Extension Cap 126 650690 Bellewille Washer 153 30690 Governor Nole (Incl. 15A & 15B) 130 650690 Bellewille Washer 154 650694 Screw, 61-0 L SX (Incl. 121A) 1306 650690 Bellewille Washer 154 650273 Screw, 51-16 B X 2* 33039 Screw, 51-16 B X 2* 156 Sold Strew, Tork 1-16, 2-32 X 38* 139 33639 Screw, 10-24 X 1/2* 158 650273 Screw, 10-24 X 1/2* 139 33639 Screw, 10-24 X 1/2* 150 27882 Valve Spring Cap 24 650551 Screw, 10-42 X 5/8* 150 27882 Valve Spring Cap 28 30322 Lock Nut, 8-32 151 32581 Valve Spring Cap 29 35284 Crankshaft 169 172896A Valve Cover Casket 30 362824 Crankshaft 169 173 35350 Breather Body <	Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
2 27652 Dowel Pin 125 27860A Exhaust Valve (1/32* OS) (Incl. 151) 4 Oil Drain Extension (Purchase 126 34035 Intake Valve (1/32* OS) (Incl. 151) 5 30690C Governor Rod (Incl. 15A & 15B) 128 650691 Washer 155 650494 Screw, 14-20 x 9/16* Screw, 14-20 x 9/16* Screw, 14-20 x 9/16* 17 29916 Governor Lever (Incl. 212A) 1300 650233 Screw, 10-24 x 1/2* 18 65044 Screw, Tork 1-15, 8-32 x 3/8* 139 33369 Governor Cear Bracket 19 34663 Speed Control Spring 140 650235 Screw, 10-24 x 1/2* 20 33319 Oil Seal 149 27882 Valve Spring Cap 28 30322 Lock Nut, 8-32 151 32581 Valve Spring Cap 28 Screw, 10-42 x 3/4* 170 28423 Breather Body 36 29918 Lock Nut, 10-32 172 28424 Breather Elongen 37 35325 Screw, 10-42 x 1/2*	1	35385	Cylinder (Incl. 2, 20, 72 & 72A)	125	27878A	Exhaust Valve (Std.) (Incl. 151)
Locally) 126 34036 Intake Value (1/32* CS) (Incl. 151; 650691 15 30699C Governor Rod (Incl. 15A & 15B) 128 650690 Belleville Washer 158 650494 Screw, 6-40 x 5/16* 130A 651031 Screw, 5/16-18 x 2* 17 29916 Governor Lever (Incl. 212A) 130A 650273 Screw, 174-20 x 3/16* 19 34663 Speed Control Spring 140 650336 Screw, 10-24 x 1/2* 20 35319 Oil Seal 149 27882 Valve Spring Cap 26 650561 Screw, 10-420 x 5/6* 150 27881 Valve Spring Cap 28 3022 Lock Nut, 8-32 151 22891 Valve Spring Cap 28 29826 Screw, 10-32 x 3/4* 170 28423 Breather Body 37 2916 Lock Washer 171 28424 Breather Body 38 Screw, 10-32 x 3/4* 170 28423 Breather Body 37 2916 Lock Washer 171 28424 Brea		27652			27880A	Exhaust Valve (1/32" OS) (Incl. 151)
5 30969 Extension Cap 127 650611 Washer 153 30690C Governor Rod (Incl. 15A & 15B) 128 650690 Belleville Washer 154 30700 Governor Yoke 130 650694 Screw, 7416-18 x 2" 158 650494 Screw, 746-18 x 578" 1304 651031 Screw, 7416-18 x 578" 16 37255A Governor Lever (Incl. 124A) 1305 33669 Governor Gear Tracket 19 34663 Speed Control Spring 140 650836 Screw, 10-24 x 1/2" 20 35319 Ol Seal Haya 35869 Governor Gaar Tracket 30322 Lock Nut, 8-32 151 32881 Valve Spring Cap 28 30322 Lock Nut, 10-32 172 28425 Screw, 10-32 x 34" 170 28424 Breather Tube 37 28216 Lock Nut, 10-32 172 28425 Breather Tube 171 28424 Breather Tube 40 40012 Piston & Pin A Bing Set (Std.) (incl. 43) 173	4				34035	Intake Valve (Std.) (Incl. 151)
15 30698C Governor Yoke 130 650690 Belleville Washer 15B 650494 Screw, 640 x 5/16* 130 650694A Screw, 5/16*18 x 5/3* 17 29916 Governor Lever (Incl. 212A) 1308 650031 Screw, 174-20 x 9/16* 18 650128 Screw, 071-15, 8-32 x 3/8* 139 33369 Governor Gear Bracket 19 34663 Speed Control Spring 140 27882 Valve Spring Cap 25 36460 Blower Housing Baffle 149A 35862 Valve Spring Cap 26 650561 Screw, 174-20 x 5/6* 150 27881 Valve Spring Cap 28 29826 Screw, 10-32 x 3/4* 170 28423 Breather Body 29826 Screw, 10-32 x 3/4* 170 28424 Breather Body Breather Body 37 29216 Lock Nut, 10-32 172 28425 Valve Cover 38 29642 Retaiping Ring 173 35350 Breather Body 41 40012 Piston					1	Intake Valve (1/32" OS) (Incl. 151)
15A 30700 Governor Yoke 130 65064/A Screw, 5716-18 x2' 15B 65044 Screw, 640 x 5/16" 130A 651031 Screw, 5716-18 x2' 16 37255A Governor Lever (Incl. 212A) 130A 651031 Screw, 5716-18 x2'' 17 29916 Governor Lever (Incl. 212A) 130B 650273 Screw, 5716-18 x2'' 18 651031 Screw, 5716-18 x2'' Governor Gear Pracket Screw, 174-20 x 9/16" 19 34663 Speed Control Spring 140 650836 Screw, 104-20 x 9/16" 20 35319 OI Seal 149 27882 Valve Spring Cap 28 30322 Lock Nut, 8-32 151 32847 Valve Spring Keeper 36283A Crankshaft 170 28423 Valve Cover Gasket Valve Cover Gasket 37 29264 Retaining Ring 171 28423 Breather Tube 40 40012 Piston, Pin & Ring Set (Std.) 174 650128 Screw, 10-24 x 1/2" 41 40000					1	Washer
15B 66(494) Screw, 5(4) x 5/16* 130A 551(31) Screw, 5(4-2), 9(16*) 16 37255A Governor Lever (Incl. 212A) 130B 650273 Screw, 5(16+18, 5/8*) 17 29916 Governor Lever (Incl. 212A) 130B 336369 Governor Gear Bracket 19 34663 Speed Control Spring 140 550836 Screw, 10-24, x1 (2*) 20 35319 Oll Seal 149 27882 Valve Spring Cap 28 30322 Lock Nut, 8-32 151 32581 Valve Spring Cap 28 30322 Lock Nut, 9-32 151 32581 Valve Spring Cap 2916 Lock Nut, 10-32 172 28423 Breather Body 29216 Lock Nut, 10-32 172 28425 Valve Cover Gasket 37 29216 Lock Nut, 10-32 172 29425 Valve Cover Gasket 36 40011 Piston, Pin & Ring Set (010" OS) 174 650128 Screw, 10-24 x 1/2" 41<40019						
16 37255A Governor Lever (Incl. 212A) 130B 552273 Screw, 5/15-18 x 5/8" 17 29916 Governor Lever Clamp 135 33636 Resistor Spark Flug (RJ)17LM) 18 651028 Screw, Tox 1-15, 8-32 x 38" 139 33369 Governor Gear Bracket 19 34663 Speed Control Spring 140 650836 Screw, 10-42 x 1/2" 20 35319 Oil Seal 149 33662 Valve Spring Cap 26 65061 Screw, 14-20 x 5/8" 150 27881 Valve Spring Cap 28 30322 Lock Nut, 8-32 151 32581 Valve Spring Valve Spring 28 30222 Lock Nut, 8-32 171 28424 Breather Element Valve Cover 38 29642 Retaining Ring 173 35350 Breather Body Screw, 10-42 x 1/2" 40 40012 Piston A Pin Ass'y. (Std.) (Incl. 43) 142 Screw, 10-42 x 1/2" Screw, 10-42 x 1/2" 41 40003 Piston & Pin Ass'y. (Cl0'O'OS) 178						
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	101	610118	Spark Plug Cover	ľ		
102 651024 Solid State Mounting Stud						
103 651007 Screw, Torx T-15, 10-24 x 15/16"	103					
110 35187 Ground Wire						the disease Dents in the tractic
119 *36448 Cylinder Head Gasket Casket Sat. Bot. No. 400			-			
120 36449 Cylinder Head Gasket Set, Ref. No. 400.	120	36449	Cylinder Head		1	Jaskel Jel, Hel. NU. 400.

CRAFTSMAN 4-CYCLE ENGINE

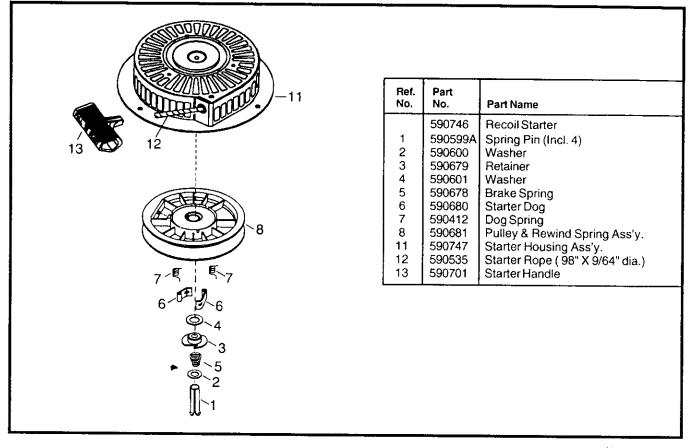
MODEL: 143.009009

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
			NU.	INU.	<u>Fart Name</u>
275 276 277 281 282 285 285 287	34185B 31588 650729 33013 650760 35985B 29752	Muffler Locking Plate Screw, 5/16-18 x 3-3/16" Starter Bubble Cover Screw, 8-32 x 3/8" Starter Cup Nut & Lock Washer, 1/4-28	341A 342 370G 370J 380 390	34258A 30063 35274 35703 640260A 590746	Fuel Tank Bracket Screw, Torx T-30, 1/4-20 x 1/2" Oil Instruction Decal Throttle Decal Carburetor (Incl. 184 & 212A) Rewind Starter (Note: This engine could have been
290 292 298 300 301 305 307 308	30962 26460 650665 34186A 36246 35554 35554 35499 35540	Fuel Line Fuel Line Clamp Screw, 1/4-15 x 3/4" Fuel Tank (Incl. 292 & 301) Fuel Cap Oil Fill Tube "O" Ring Fill Tube Clip	400 416 417 900 900	36450B 34479A 650696	built with 590704 starter.) Gasket Set (Incl. Items Marked *) Spark Arrestor Kit (Incl. 417) Screw, 5/16-18 x 2-3/4" Replacement Engine 756332A, Order from 71-999 Replacement Short Block 756331B, order From 71-999
310 311 312 325 327 339 340A	36205 35941 *29673 29443 35392 35880 34259	Dipstick Dipstick (Incl. 312) "O" Ring Wire Clip Starter Plug Spacer Fuel Tank Bracket		181-1218-11	Operator's Manuals *Indicates Parts Included in Gasket Set, Ref. No. 400. RPM High 3450 to 3750 RPM Low 1700

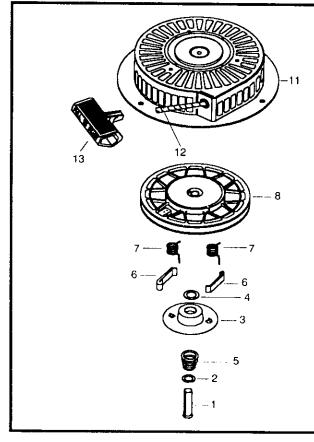
CARBURETOR NO. 640260A



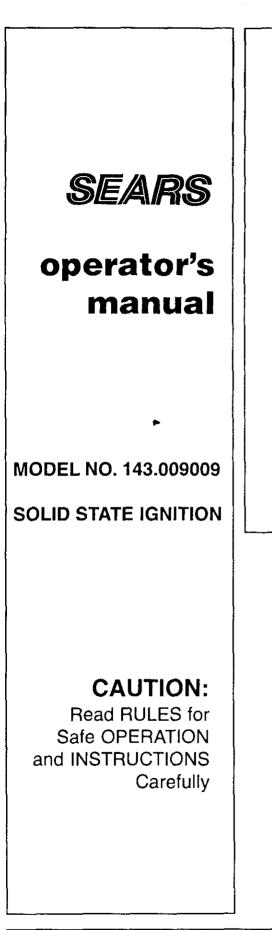
REWIND STARTER NO. 590746



STARTER NO. 590704



Ref. No.	Part No.	Part Name
1 2 3 4 5 6 7 8 11 12 13	590704 590599A 590600 590696 590697 590697 590698 590700 590700 590705 590535 590701	Recoil Starter Spring Pin (Incl. 4) Washer Retainer Washer Brake Spring Starter Dog Dog Spring Pulley & Rewind Spring Ass'y. Starter Housing Ass'y. Starter Rope (98" x 9/64" dia.) Starter Handle
	I	<u> </u>



How to ORDER Repair Parts

The Model Number will be found on a decal on the blower housing (See Figure 1). Always mention the Model Number when requesting service or repair parts for your Craftsman Engine.

All parts listed herein may be ordered from any SEARS, ROE-BUCK AND CO. or SEARS CANADA, INC. retail or catalog store. If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for expedited handling.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST.

- 1. The PART NUMBER
- 2. The PART DESCRIPTION
- 3. The MODEL NUMBER
- 4. The NAME OF ITEM ENGINE

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